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MENLO

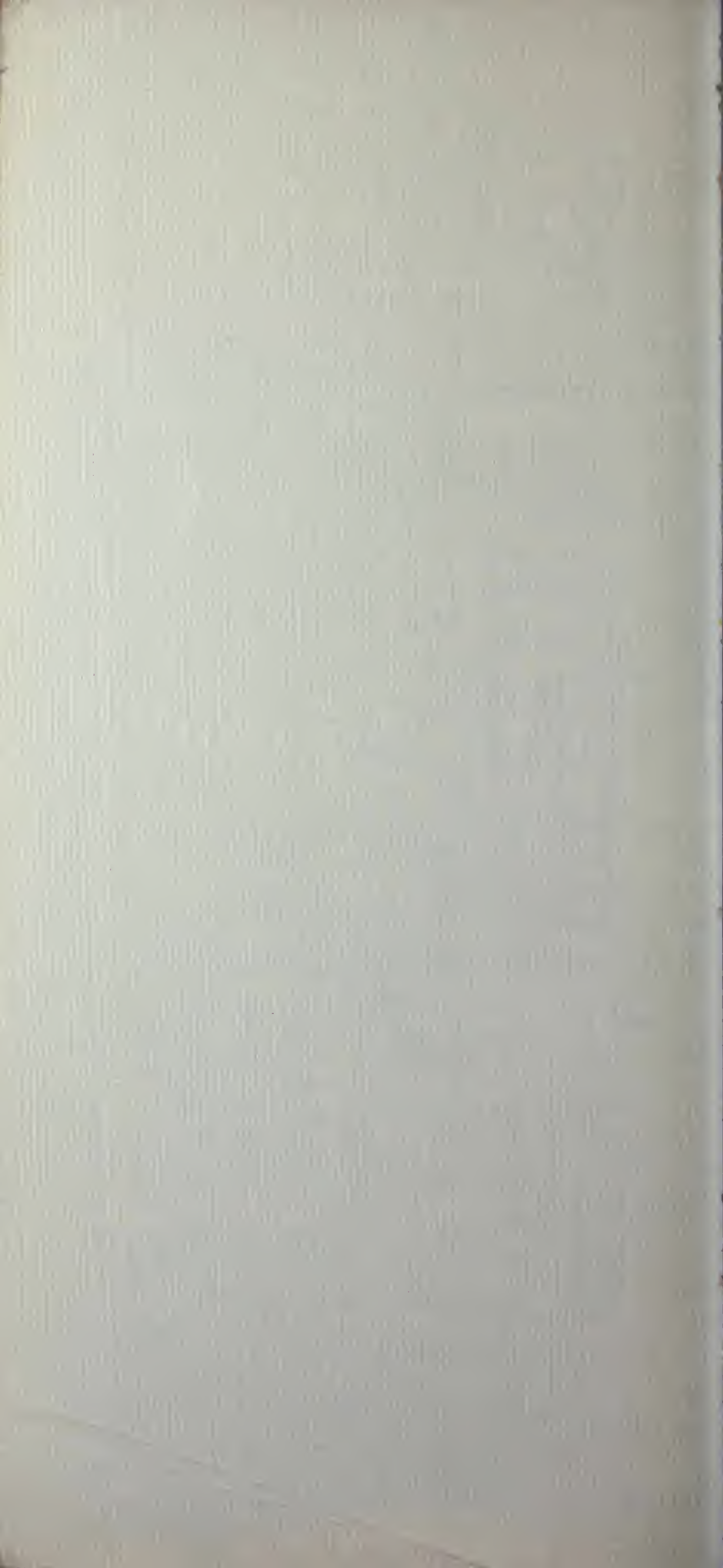
THE H. B. SMITH CO.

1225 Arch Street

PHILADELPHIA, PENNA.

CATALOG

No. 631



MENLO BOILER

For
Steam and Water
Warming

1910

Menlo Boiler



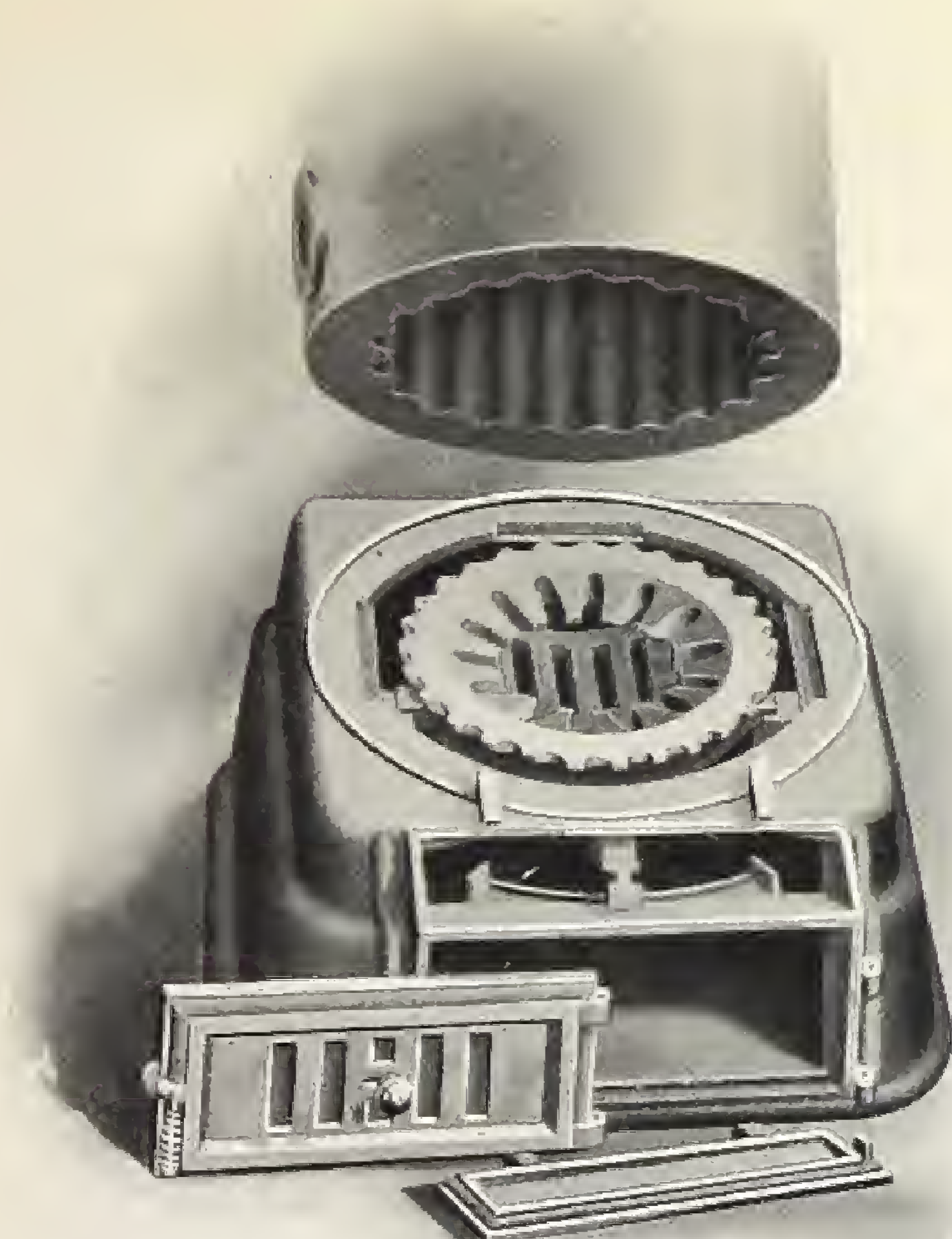
Nos. 10, 12 and 14 Menlo Boiler



Showing Fire Travel

Nos. 10, 12 and 14 Menlo Boiler

Menlo Boiler



Showing Ash Pit and Grate
Numbers 10, 12 and 14 Menlo
Menlo Water Boiler

RATINGS

Number	Diameter of Grate in Inches	Rating* in Feet	Price
10	10	200	\$55
12	12	300	70
14	14	400	95

*FOR COMPUTING SIZE OF BOILER, SEE PAGE 18.

Menlo Tank Heater

RATINGS

Number	Diameter of Grate in Inches	Tank Capacity† in Gallons	Price
10	10	225	\$55
12	12	350	70
14	14	500	95
16	16	750	139
18	18	1100	170
20	20	1500	206

†Tank capacity for various sizes of Heater for *Domestic Supply*—average conditions.

Note: Not capacity in gallons per hour to be raised from a low to a high temperature.

Menlo Boiler



Nos. 16, 18 and 20
Menlo Steam Boiler

STEAM RATINGS

Number	Diameter of Grate in Inches	Rating* in Feet	Price
16	16	300	\$149
18	18	375	180
20	20	475	216

*FOR COMPUTING SIZE OF BOILER, SEE PAGE 18.

Menlo Boiler



Nos. 16, 18 and 20
Menlo Water Boiler

WATER RATINGS

Number	Diameter of Grate in Inches	Rating* in Feet	Price
16	16	500	\$139
18	18	600	170
20	20	800	206

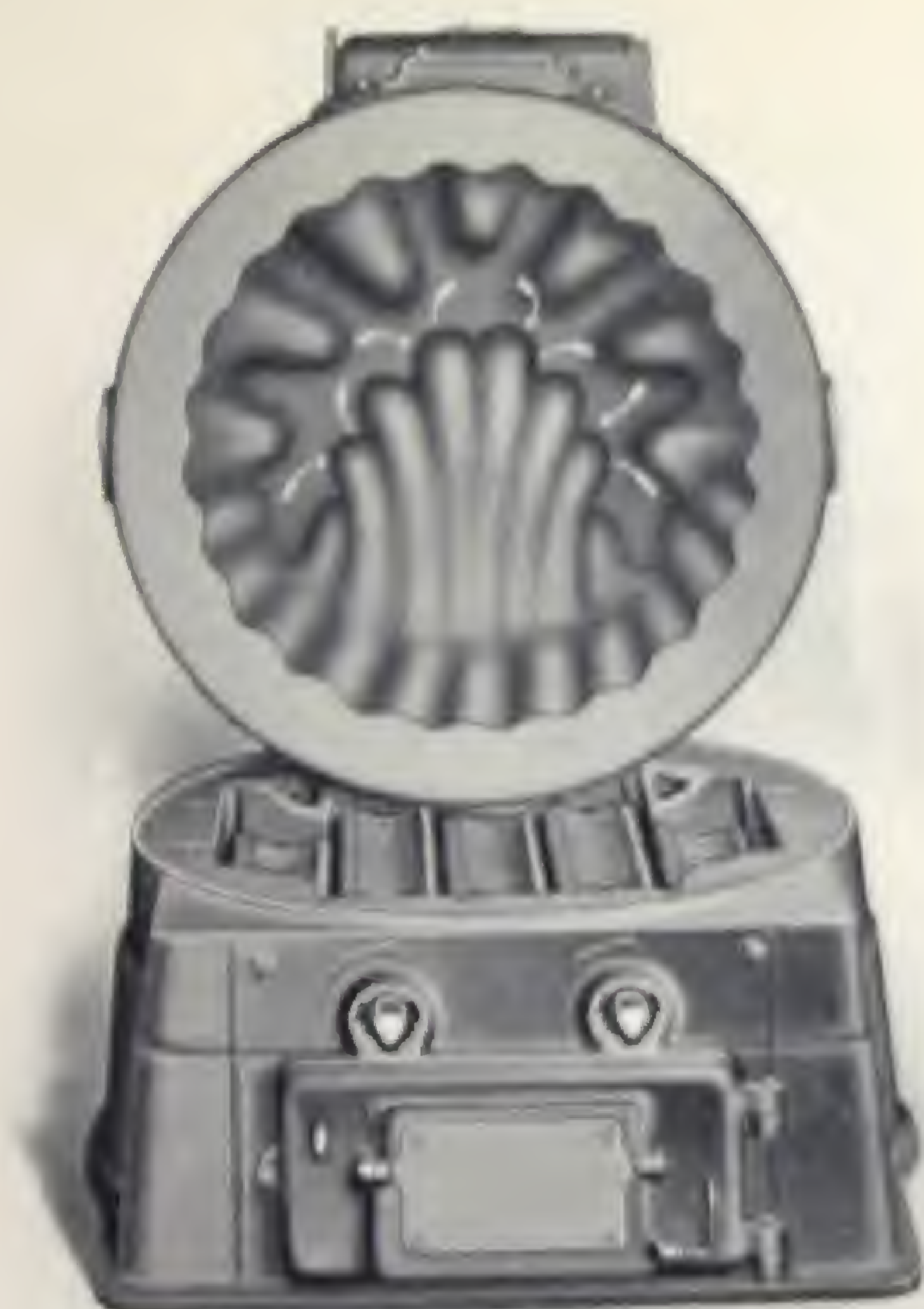
*FOR COMPUTING SIZE OF BOILER, SEE PAGE 18.

Menlo Boiler



Showing Ash Pit and Method of Shaking
Nos. 16, 18 and 20
MENLO BOILER

Menlo Boiler



Interior of Fire Pot
Nos. 16, 18 and 20
MENLO BOILER

Smoke Bonnet



Nos. 16, 18 and 20 Menlo

Menlo Boiler



Nos. 123 and 126
Menlo Steam Boiler
STEAM RATINGS

Number	Diameter of Grate in Inches	Rating* in Feet	Price
23	23	550	\$236
123	23	600	249
26	26	675	293
126	26	750	316

Shipped Knocked Down

*FOR COMPUTING SIZE OF BOILER, SEE PAGE 18.

Menlo Boiler



Nos. 123 and 126
Menlo Water Boiler
WATER RATINGS

Number	Diameter of Grate in Inches	Rating* in Feet	Price
23	23	900	\$226
123	23	1000	239
26	26	1125	283
126	26	1250	306

Shipped Knocked Down

*FOR COMPUTING SIZE OF BOILER, SEE PAGE 18.

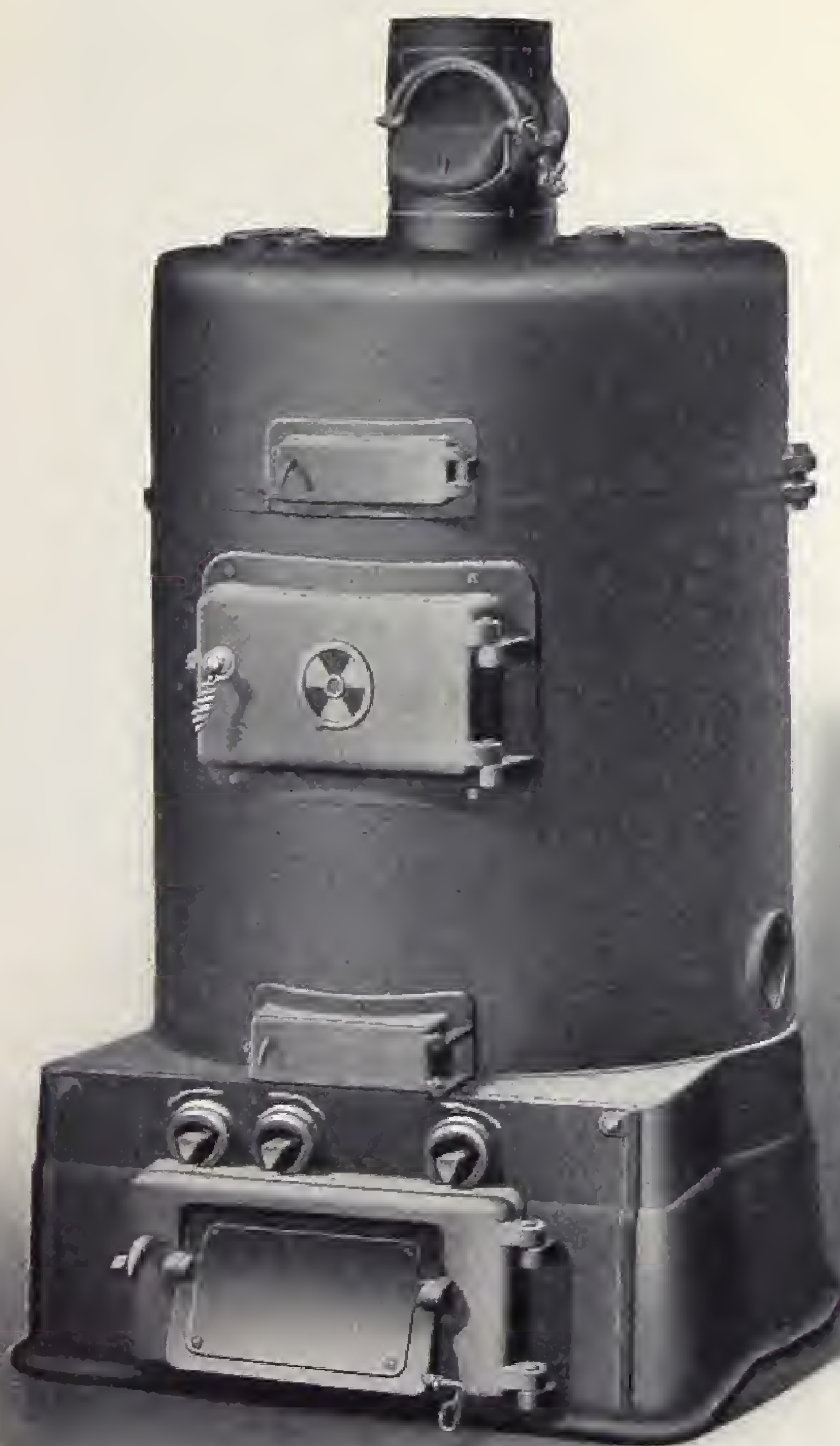
Menlo Boiler



Nos. 23 and 26

Menlo Steam Boiler

Menlo Boiler



Nos. 23 and 26

Menlo Water Boiler

Menlo Boiler

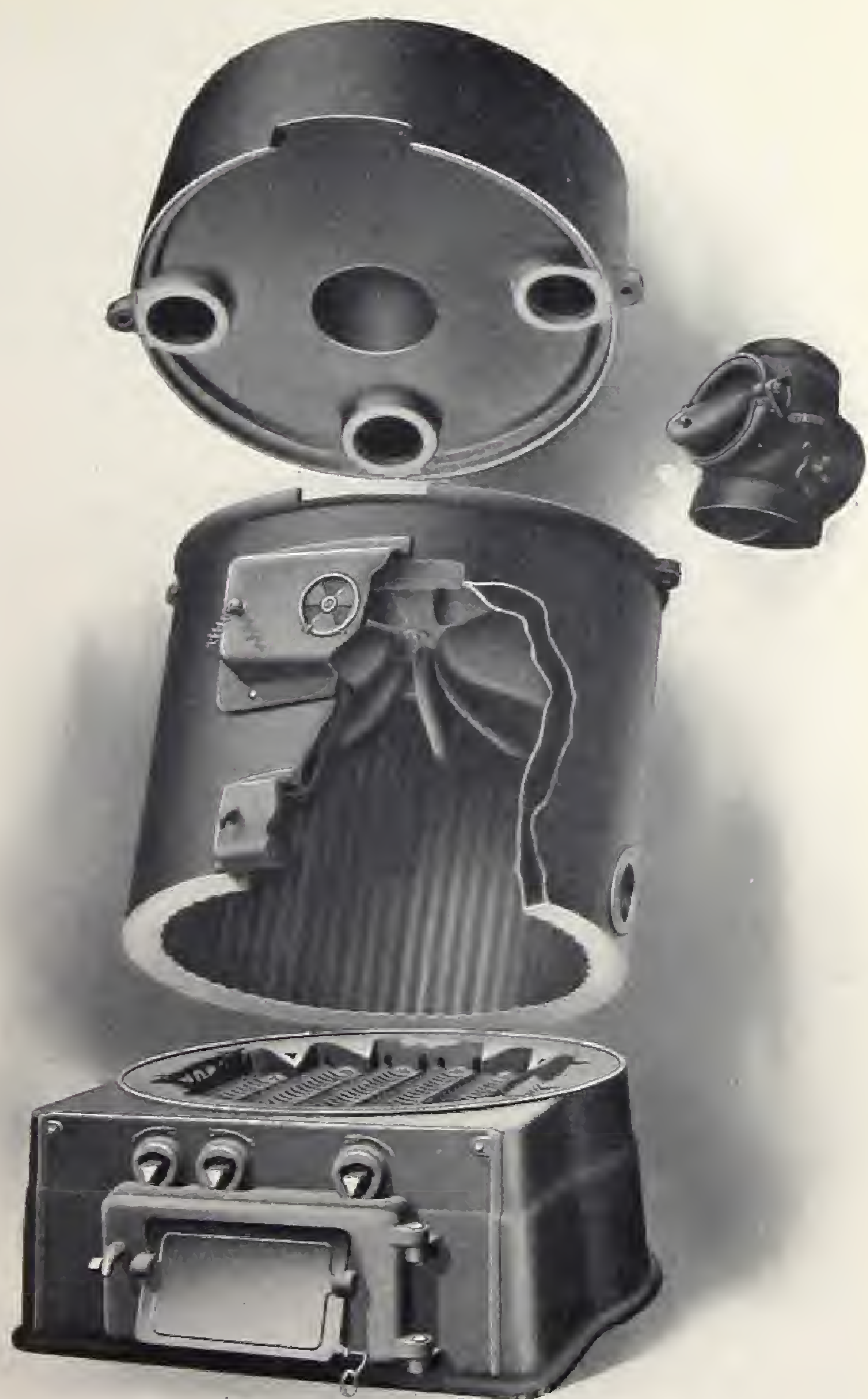


Interior

Nos. 123 and 126

Menlo Boiler

Menlo Boiler



Interior

Nos. 23 and 26

Menlo Boiler

Menlo Boiler

Regular Tapping*

Number	Supply	Return
10	1-2"	3-2"
12	1-2"	3-2"
14	1-2½"	3-2"
16	1-3", 2-1½"	1-3", 2-2"
18	1-3", 2-1½"	1-3", 2-2"
20	1-3", 2-1½"	1-3", 2-2"
23	2-3", 2-1"	2-3"
123	2-3", 2-1"	2-3"
26	2-3", 1-1¼", 1-1"	2-3"
126	2-3", 1-1¼", 1-1"	2-3"

FIRE TOOLS FURNISHED

Nos. 16, 18 and 20—Poker.

Nos. 23, 123, 26 and 126—Poker and flue brush
with handle.

TRIMMINGS FURNISHED WITH STEAM BOILERS

Pop safety valve.

Steam gauge with cock.

Water column complete.

(2-⅜" Gauge Cocks.)

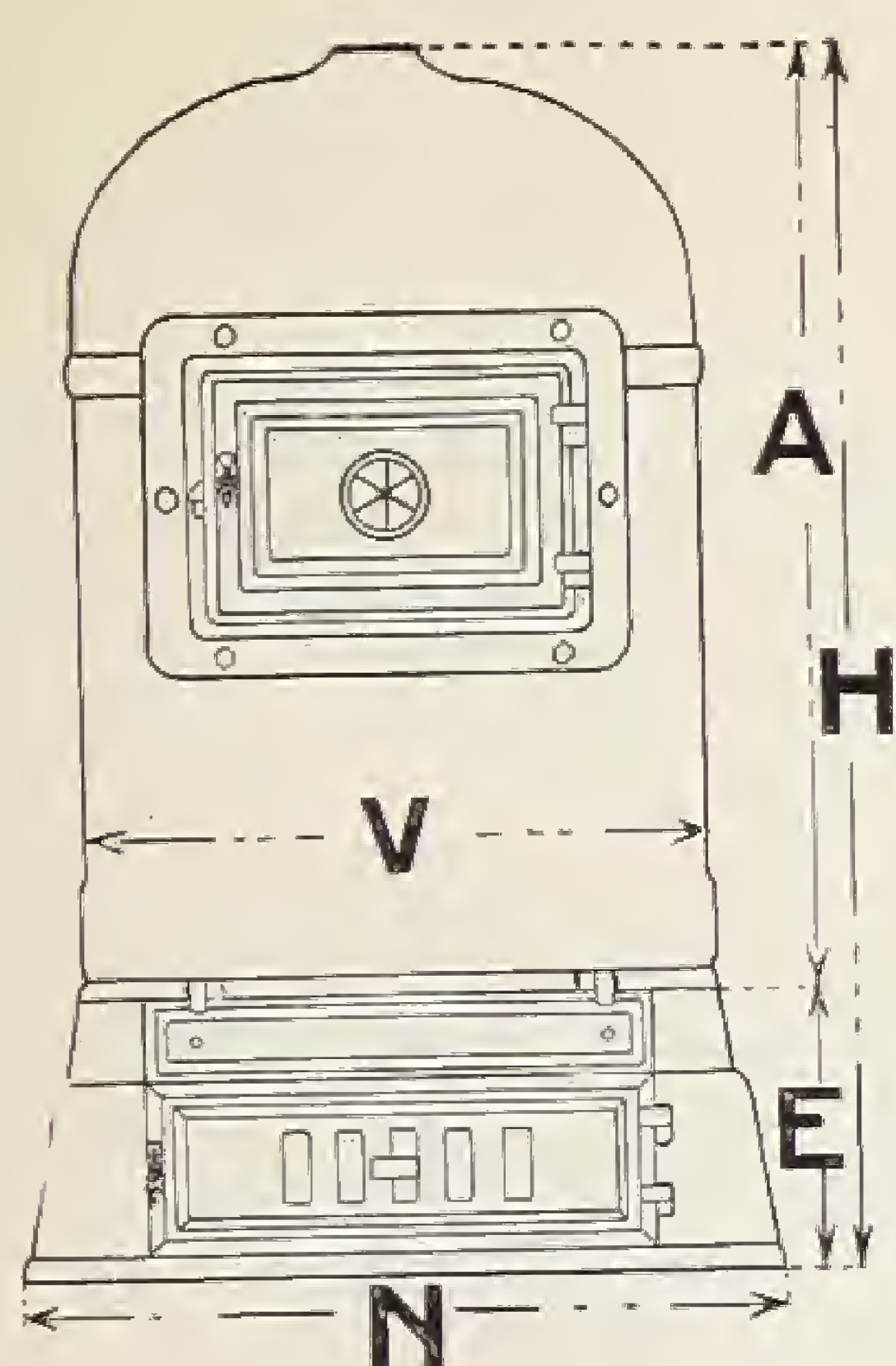
(1 pair water-gauge cocks with glass.)

Diaphragm complete with chain.

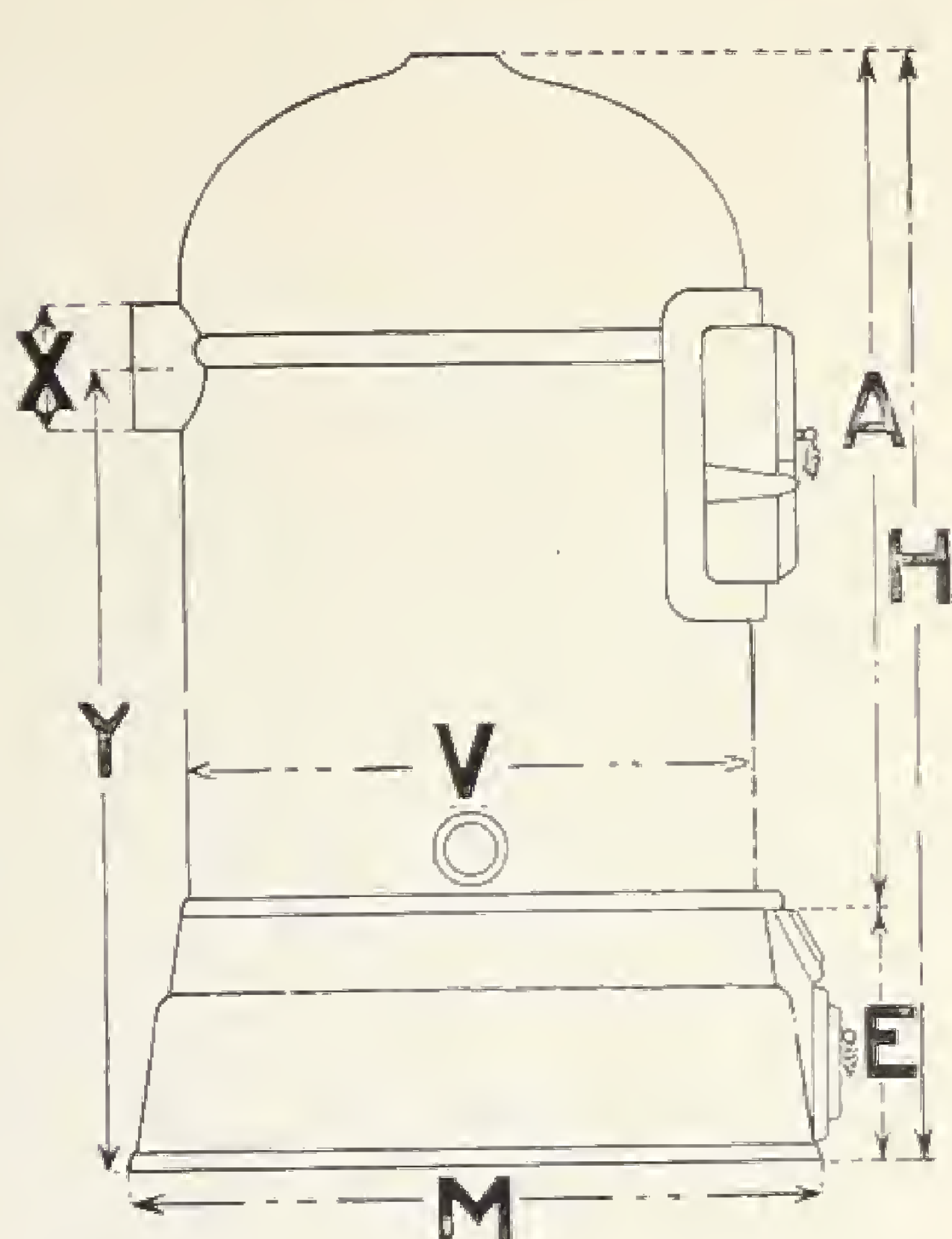
Pipe and fittings for connecting steam trim-
mings.

*If Boiler is to have special tapplings, so specify on order.

Menlo Boiler



Front
Elevation



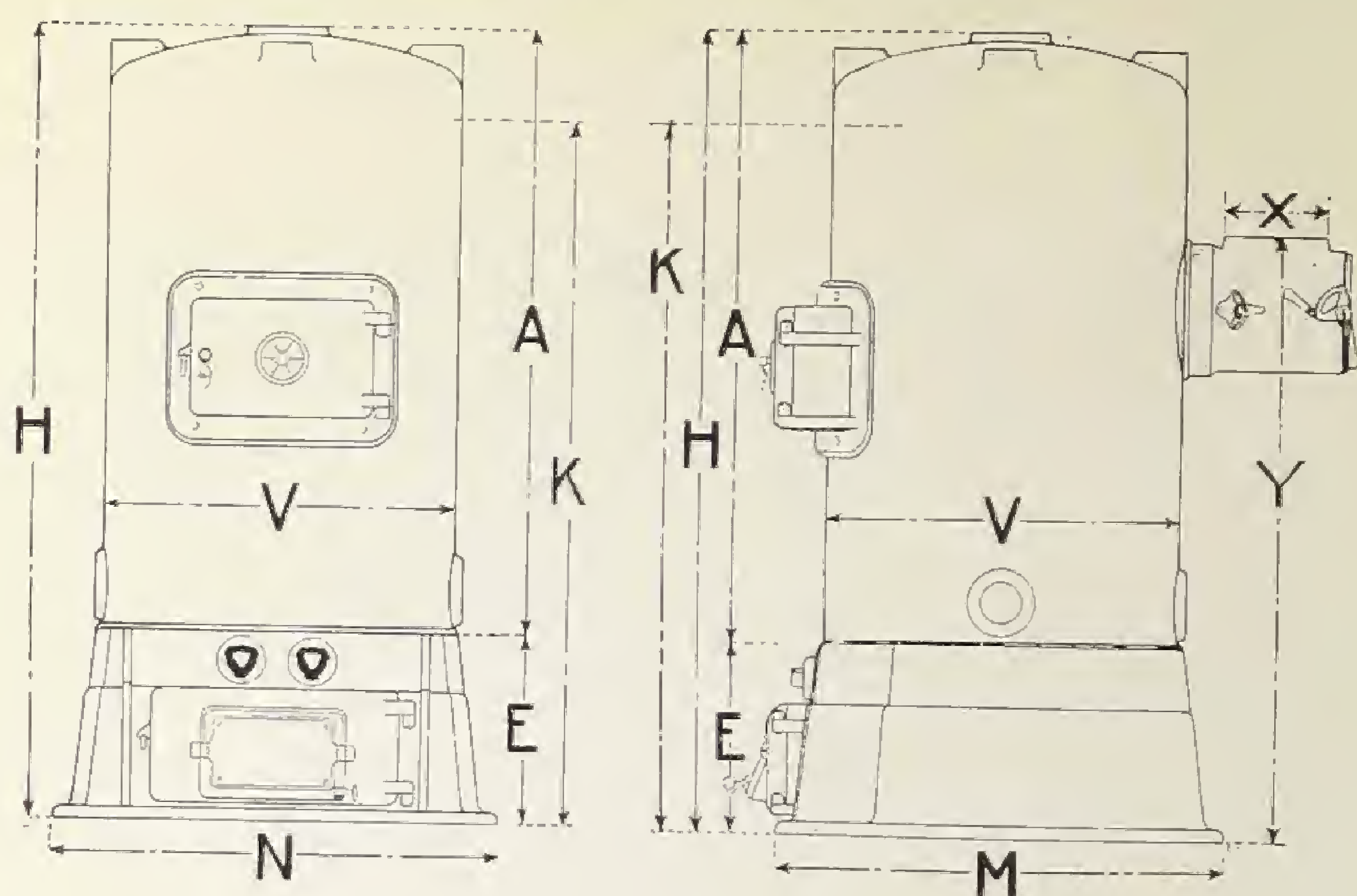
Side
Elevation

Nos. 10, 12 and 14
MENLO

Dimensions in Inches

Number	10	12	14
A Height of Dome	24	25½	27
E Height of Ash Pit	8	8	8
H Total Height	32	33½	35
M Length at Floor	19½	22	24½
N Width at Floor	19½	22	24½
V Diameter of Dome	15	17½	20
X Diameter of Smoke Pipe . . .	5	5	6
Y Height to centre of Smoke Pipe	25	26	29½

Menlo Boiler



Front
Elevation

Side
Elevation

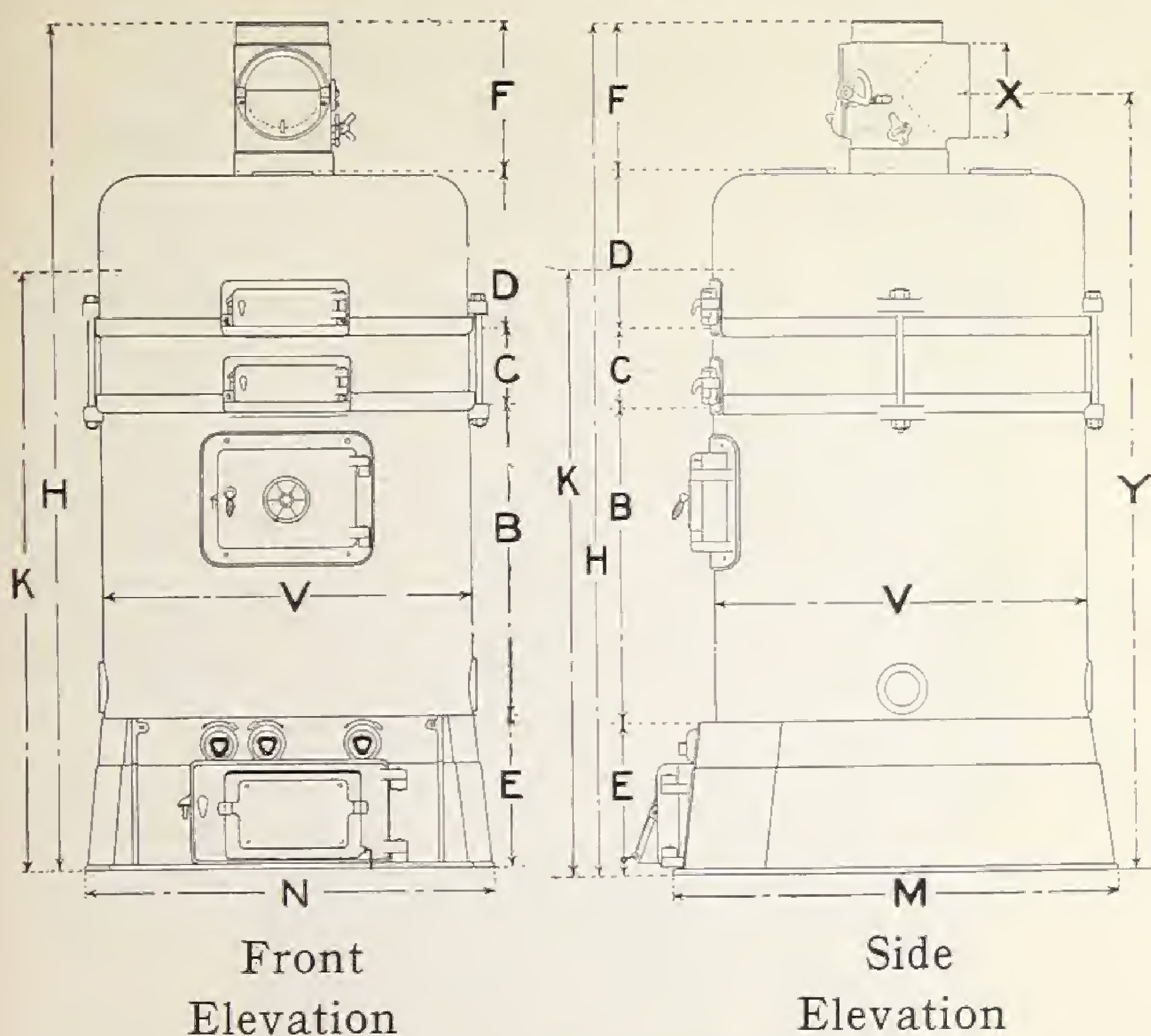
Nos. 16, 18 and 20

MENLO

Dimensions in Inches

Number	16	18	20
A Height of Dome	38	38	39
E Height of Ash Pit	12	12	12
H Total Height	50	50	51
K Height of Water Line	44	44	45
M Length at Floor	26 $\frac{3}{4}$	28 $\frac{3}{4}$	30 $\frac{3}{4}$
N Width at Floor	26 $\frac{3}{4}$	28 $\frac{3}{4}$	30 $\frac{3}{4}$
V Outside Diameter of Dome	22	24	26
X Diameter of Smoke Pipe	7	7	8
Y Height to centre of Smoke Pipe	33 $\frac{1}{4}$	33 $\frac{1}{4}$	33 $\frac{1}{4}$

Menlo Boiler



Nos. 123 and 126

MENLO

Dimensions in Inches

Number	23	123	26	126
B Height of Fire Pot	25	25	26	26
C Height of Intermediate Section		6		6
D Height of Dome	12	12	12	12
E Height of Ash Pit	14	14	14	14
F Height of Smoke Bonnet	$11\frac{3}{4}$	$11\frac{3}{4}$	$11\frac{3}{4}$	$11\frac{3}{4}$
H Total Height of Boiler	$62\frac{3}{4}$	$68\frac{3}{4}$	$63\frac{3}{4}$	$69\frac{3}{4}$
K Height of Water Line	$45\frac{1}{4}$	$51\frac{1}{4}$	$46\frac{1}{4}$	$52\frac{1}{4}$
M Length at Floor	$35\frac{5}{16}$	$35\frac{5}{16}$	$38\frac{1}{2}$	$38\frac{1}{2}$
N Width at Floor	$33\frac{7}{8}$	$33\frac{7}{8}$	37	37
V Outside Diameter of Fire Pot	28	28	31	31
X Diameter of Smoke Pipe	8	8	8	8
Y Height to Center of Smoke Pipe	$57\frac{3}{4}$	$63\frac{3}{4}$	$58\frac{3}{4}$	$64\frac{3}{4}$

Shipped Knocked Down

Menlo Boiler

BOILER RATING

Basis for Computing Size of Boilers

1. STEAM BOILER ratings are based on maintaining two pounds pressure at the boiler.
2. WATER BOILER ratings are based on the water being maintained at a temperature of 180 degrees at the boiler.
3. SUFFICIENT RADIATION must be installed to easily raise and maintain a temperature of 70 degrees.
4. RATINGS are for cast iron DIRECT radiators with average amount of surface in MAINS, RISERS and RETURNS.
5. Usual ALLOWANCE must be made for the use of PIPE COILS, WALL RADIATORS, DIRECT-INDIRECT, INDIRECT RADIATION and CONTINGENCIES.
 - (a) PIPE COILS OR WALL RADIATORS. Each foot of surface is considered equivalent to $1\frac{1}{2}$ feet of direct radiators.
 - (b) DIRECT-INDIRECT RADIATORS. Each foot of surface is considered equivalent to $1\frac{1}{2}$ feet of direct radiators.
 - (c) INDIRECT RADIATORS. Each foot of surface is considered equivalent to $1\frac{1}{2}$ feet of direct radiators.
 - (d) COIL or WATER BACK for warming water (domestic supply). Each gallon storage capacity is considered equivalent to 2 feet of direct steam radiators, or 3 feet of direct water radiators.
6. ALL PIPING (supplies, returns, risers, etc.) is to be figured as radiating surface.
 - (a) Under USUAL CONDITIONS an allowance for PIPING and FACTOR OF SAFETY is considered equal to approximately 50% of the NET amount of DIRECT radiators (see paragraph 5).
7. LISTED RATINGS of boilers are determined by adding 50% to the NET amount of DIRECT cast iron RADIATORS exclusive of PIPING (see paragraph 5).
 - (a) The above 50% addition is equivalent to a deduction of $33\frac{1}{3}\%$ from listed ratings.
8. RATINGS are based on ANTHRACITE COAL as fuel.
 - (a) If BITUMINOUS COAL is to be used it is good practice to add about 10% to size of Boiler.

Princess Radiators



Single-Column



2-Column



3-Column

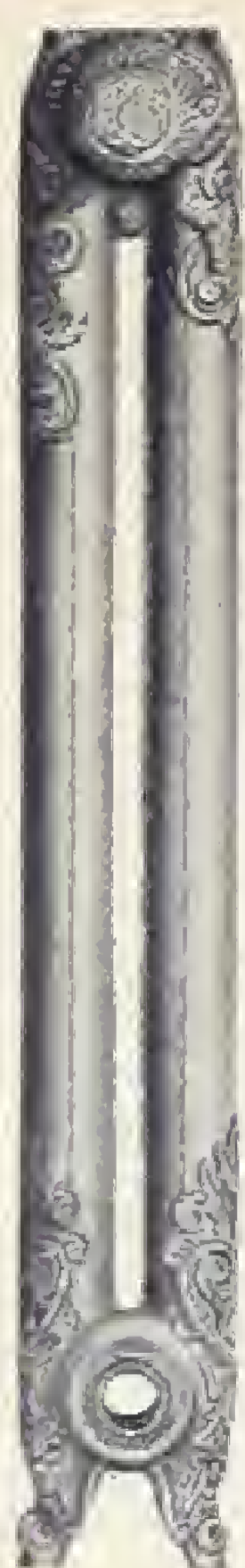


5-Column



5-Column
Window Radiator

Imperial Radiators



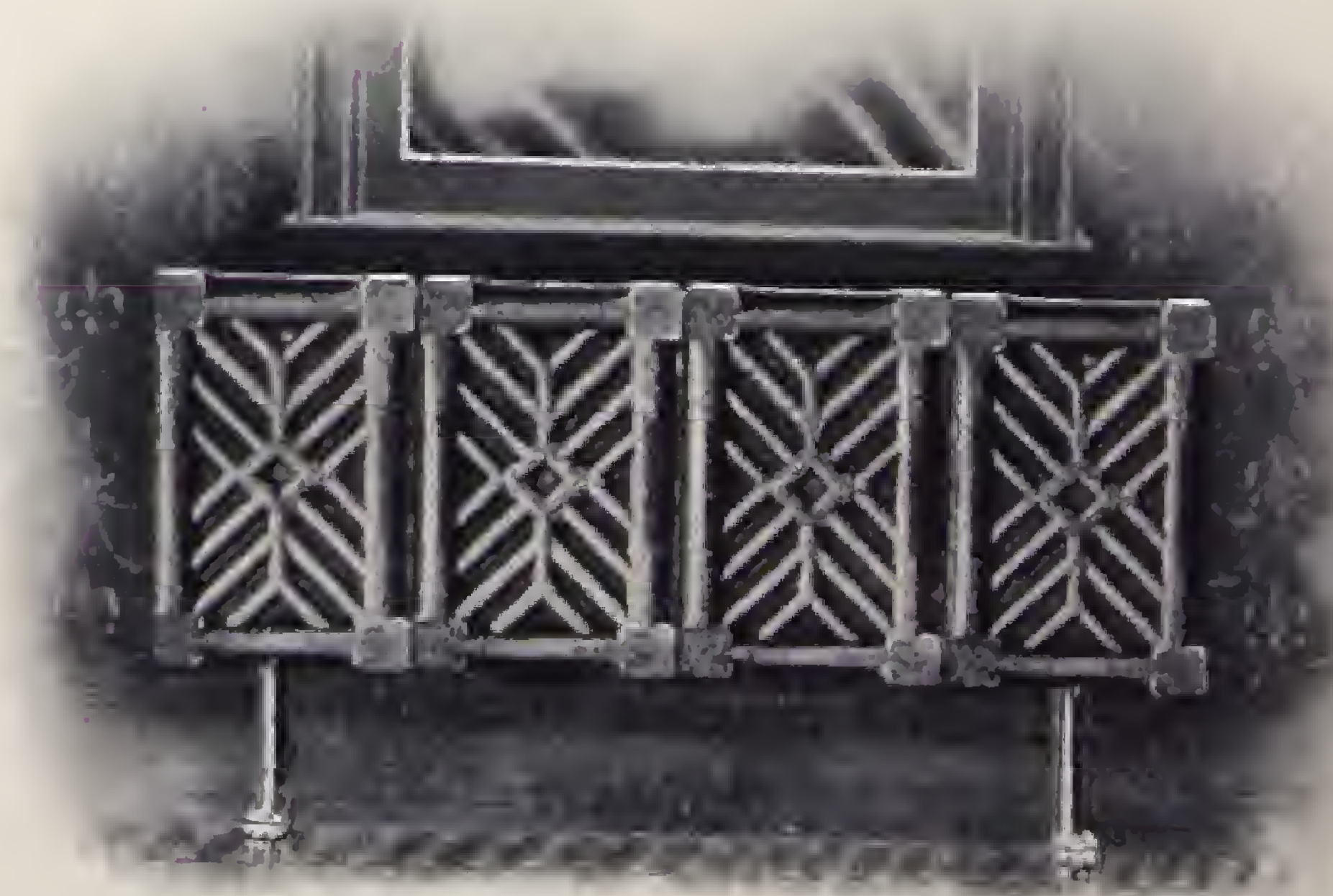
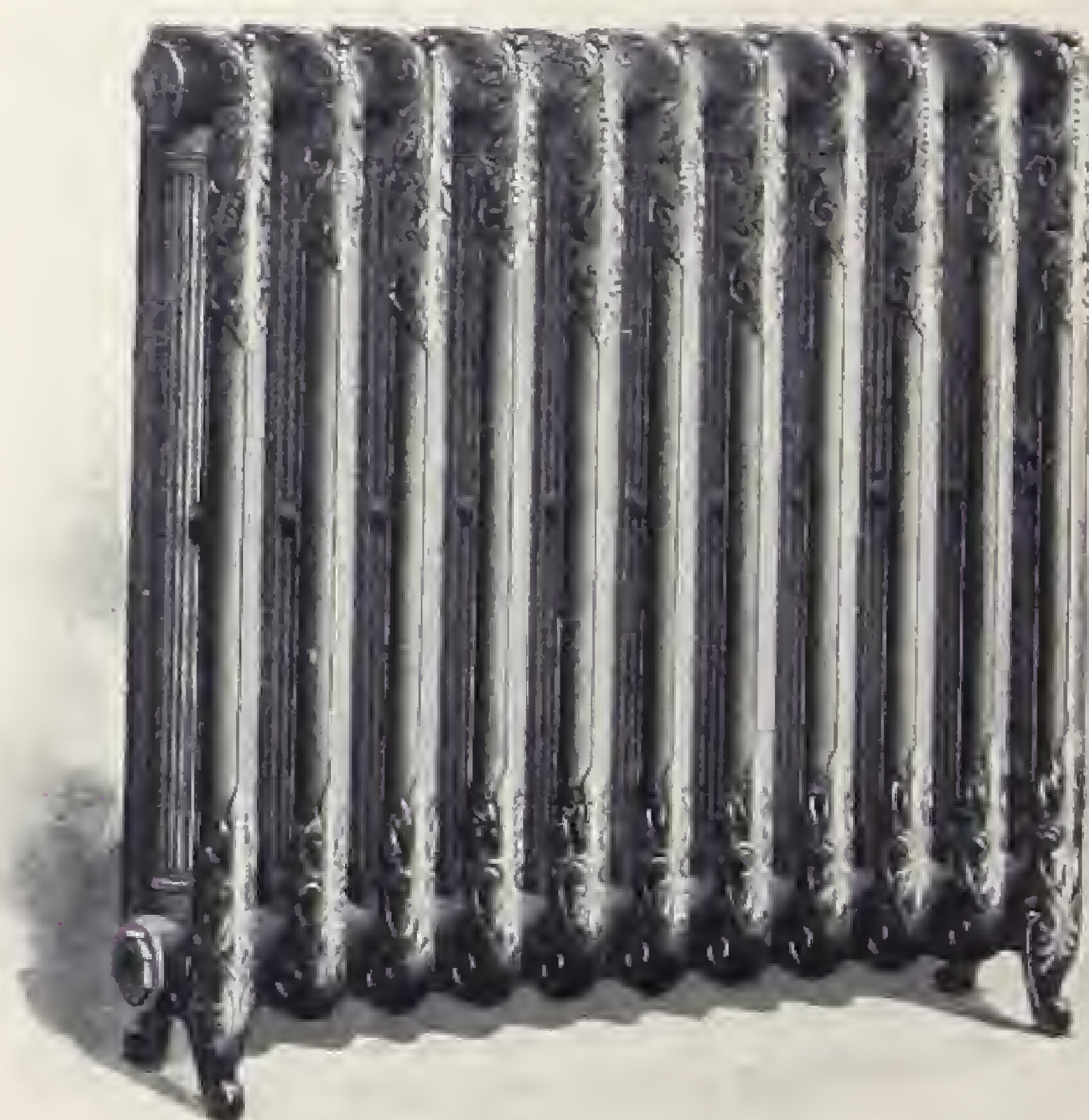
Single-Column



2-Column



3-Column



X-Ray Wall Radiator
1 x 4—8 Foot

Menlo Boiler

Ratings and Prices

Number	STEAM		WATER	
	Rating* in Feet	Price	Rating* in Feet	Price
10	...	...	200	\$55
12	...	...	300	70
14	...	...	400	95
16	300	\$149	500	139
18	375	180	600	170
20	475	216	800	206
23	550	236	900	226
123	600	249	1000	239
26	675	293	1125	283
126	750	316	1250	306

*For computing size of Boiler, see page 18.